To: Smith, Art[Smith.Art@epa.gov]
Cc: Kevin.Strohmeier@ky.gov[Kevin.Strohmeier@ky.gov];
Ex. 6 - Personal Privacy @tetratech.com]; Angela Crain[ascrain@usgs.gov]
From: Ruby, Albert
Sent: Mon 1/27/2014 8:19:50 PM
Subject: Re: FW: elk creek spill

correct

A. Thomas Ruby III (502) 493-1933 office
Supervisory Hydrologist (502) 493-1909 fax
U.S. Geological Survey (502) 693-8595 cell
Kentucky Water Science Center
9818 Bluegrass Parkway
Louisville, KY 40299 *http://ky.water.usgs.gov*

On Mon, Jan 27, 2014 at 11:19 AM, Smith, Art <Smith.Art@epa.gov> wrote:

> Thanks, Tom. Based on that, I guess we would say that the EPA samples were collected at 1'-2' depths at each location.

From: Ruby, Albert [mailto:aruby@usgs.gov]
Sent: Monday, January 27, 2014 10:58 AM
To: Smith, Art
Cc: Kevin.Strohmeier@ky.gov; Ex. 6 - Personal Privacy @tetratech.com; Angela Crain
Subject: Re: FW: elk creek spill

Art,

The samples were collected at the 4 sites at 3 verticals. The personnel consisted of 2 boats and 4 people on each boat. The first boat collected a discharge measurement for the reach. Then at each site, a discharge was collected then divided into 3 equal parts for the discharge. This determined the sampling verticals. At each vertical we collected 4 VOC vials and 1 HDPE bottle at a depth integrated vertical. This was to compare two sample preservation methods (1 frozen and 1 acidified). We also took EPA samples with 1 liter amber glass bottles about 1 to 2 feet below surface opening and closing bottle under water at each bottle. We did not have a sampler that would allow a depth integrated sample for the 1 liter amber glass bottle (if we would have somehow attached it to

the another sampler, it would have filled in the first couple feet). Where as with the 4 VOC vials, we used special designed NAWQA VOC sampler and the HDPE bottle used BOD sampler which filled the bottle from the bottom.

Thanks,

Tom

A. Thomas Ruby III
Supervisory Hydrologist
U.S. Geological Survey
Kentucky Water Science Center
9818 Bluegrass Parkway

Louisville, KY 40299

(502) 493-1933 office
(502) 493-1909 fax
(502) 693-8595 cell

http://ky.water.usgs.gov

On Fri, Jan 24, 2014 at 11:05 AM, Smith, Art <Smith.Art@epa.gov> wrote:

Tom, please see email below. If you could describe the sampling method used by USGS such that the depth issue can be understood, that would be helpful. Thanks.

From: Strohmeier, Kevin (EEC) [mailto:kevin.strohmeier@ky.gov]
Sent: Friday, January 24, 2014 10:38 AM
To: Smith, Art

Subject: RE: elk creek spill

Good morning, Art. I have been asked to try to find out the depths for these samples as well.

I know that you are interested in MCHM results for the Ohio River samples. Will EPA also want the results from the WTP samples as well? Dale indicated that he was

interested in them, but I wanted to make sure it was something that you wanted to see as well.

Thanks,

Kevin

Kevin L. Strohmeier

Response Coordinator/State On-scene Coordinator

Kentucky Department for Environmental Protection

300 Fair Oaks Lane

Frankfort, KY 40601

270/734-5236 cell

502/564-2150 office

502/564-9634 fax

From: Smith, Art [mailto:Smith.Art@epa.gov]
Sent: Wednesday, January 22, 2014 2:32 PM
To: Ex. 6 - Personal Privacy @tetratech.com
Cc: Strohmeier, Kevin (EEC)
Subject: FW: elk creek spill

I spoke with Tom Ruby and he forwarded the coordinates for sampling in the Ohio River last Thursday.

From: Ruby, Albert [mailto:aruby@usgs.gov]
Sent: Wednesday, January 22, 2014 2:24 PM
To: Smith, Art
Subject: elk creek spill

Art,

See Attached

Tom

A. Thomas Ruby III
Supervisory Hydrologist
U.S. Geological Survey
Kentucky Water Science Center
9818 Bluegrass Parkway

Louisville, KY 40299

(502) 493-1933 office
(502) 493-1909 fax
(502) 693-8595 cell

http://ky.water.usgs.gov